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METHOD OF SYNTHESIZING

FLUOROMETHYLHEXAFLUOROISOPROPYL ETHER

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ABSTRACT OF THE DISCLOSURE

A method of synthesizing fluoromethylhexafluoro-isopropyl ether comprises adding hexafluoroisopropyl alcohol to a mixture comprising a stoichiometric excess of paraformaldehyde and hydrogen fluoride, plus sufficient sulfuric acid to sequester most of the water produced by the reaction. The mixture is maintained at a temperature of at least 57°C., to cause vapor formation by boiling of the fluoromethylhexa²⁰fluoroisopropyl ether formed. The vapor is then collected and condensed, and may be purified by distillation.

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